INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

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COUNTRY	Hungary	REPORT		
SUBJECT	Hungarian E-2 Fire Control Equipment	DATE DISTR.	1 3 NOV 1959	
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	SOURCE EVALUATIONS ARE DEFINITIVE. APP	RAISAL OF CONTE	NT IS TENTATIVE.	

- 1. Among other apparatus, the Gamma Optical Works of Fehervari ut 58, 50X1-HUM
  Budapest 11, were manufacturing in September 1959 the so-called E-2
  fire control equipment for anti-aircraft weapons. Stationed at the
  plant as a technical adviser from the Ministry of Defense was
  Lieutenant Colonel Laszlo Horvath.
- 2. The B-2 apparatus (the "E" allegedly stands for the Hungarian word ertek, meaning value) was developed by one Peter Daru from a German World War II guidance and fire control device. The apparatus is mounted on a trailer and protected by tarpaulins stretched over a steel rod frame. A transformer provides it with 380-volt current from outside sources.
- 3. The apparatus measures 1500 x 1200 x 1500 millimeters and weighs approximately 300 kilograms. Outside temperatures from 60°C to minus 45°C do not affect its performance. It is equipped with a short wave apparatus of 100 to 120 tubes of Soviet and Hungarian manufacture. It operates at 500 cycles per second and has a bearing range of 10,000 meters altitude up to 90° elevation.
- 4. The E-2 is fitted with seven devices:
  - a. V mechanism (V standing for velocity);
  - b. B mechanism (angle):
  - c. i. mechanism (time);
  - d.  $\mathcal{E}$  mechanism (angle deviation, resulting from  $\beta_1 + \beta_2$ );
  - e. B mechanism (angle computer?);

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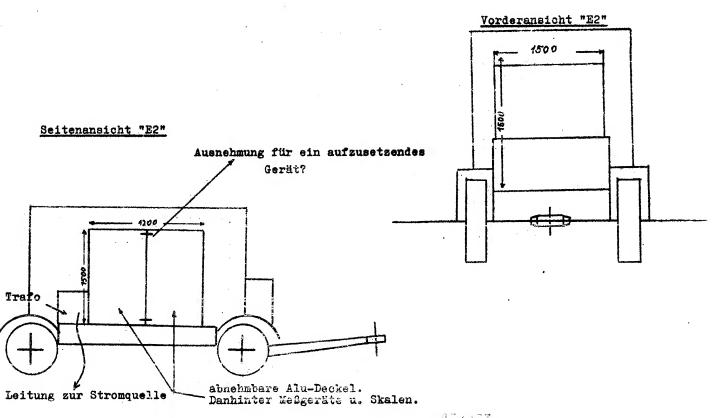
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		12	echanism (angle echanism (consis spiral	ts of the		and calculat	tes height,		
	5•	<ul> <li>5. The several devices are contained in the center of the equipment and are connected by cog wheels to an axle. In addition there are two potentiometers, a resolver (? - Hungarian term), and a time interval recorder. The entirety is run by electric motors. At the front end of the equipment are measuring devices and scales.</li> <li>6. The E-2 is not set up in the middle of an AA battery but is kept off to one side. The guns are connected by way of a small distributer box. Interior and exterior ballistic factors can be calculated into the E-2. It can also be used in connection with radar and optical devices.</li> </ul>							
	<b>6.</b>								
	7.	1959 and There was	on of the E-2 be five sets were s no mass produc rocess of being	schedule tion as	d for compl of September	etion by the 1959, but	e end of 10	50	
		fire cont	trol equipment.		two pages	of sketches	of the E-2	50X1-HUM	
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Vorder- u. Seitenansicht. "E2"



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